

DOCKET NO.: ISIS-5030

PATENT

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I.D.S.



In Re Application of:

Stanley T. Crooke

Serial No.: 10/079,185

Group Art Unit: 1635

Filing Date: February 20, 2002

Examiner: Unknown

For: HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF

RECEIVED

MAY 24 2002

TECH CENTER 1600/2900

DATE OF DEPOSIT:

May 20, 2002

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231.

TYPED NAME: Gwilym J. O. Attwell
REGISTRATION NO.: 45,449

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).



In accordance with §1.97(b), since this Information Disclosure Statement is being

filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

- ☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐the first or ☐second After Final Submission, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
- ☐ The fee of \$180.00 as set forth in §1.17(p) is attached.
- ☐ In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or before an action that otherwise closes prosecution in the application, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
- ☐ The fee of \$180.00 as set forth in §1.17(p) is attached.
- ☐ In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); and the submission fee of \$180.00 as set forth in §1.17(p).
- ☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- ☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- EXCEPT THAT:
- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

☒ In accordance with §1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. §120 have been made in the instant application:

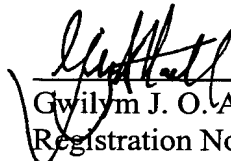
☒ Copies of references **AA-AH, AW, and AX** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. **09/900,425**, filed **July 6, 2001**.

☐ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050.
This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date: *May 20, 2002*



Gwilym J. O. Attwell
Registration No. 45,449

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-5030

Serial No.
10/079,185

Applicant
Stanley T. Crooke

Filing Date
February 20, 2002

Group
1635

RECEIVED
MAY 24 2002
TECH CENTER 1600/2900

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	AU	5,804,683	09/08/98	Usman et al.	536	25.31
	AV	5,891,683	04/06/99	Usman et al.	435	91.31
	AW	5,898,031	04/27/99	Crooke	435	172.3
	AX	6,107,094	08/22/00	Crooke	435	455

FOREIGN PATENT DOCUMENTS

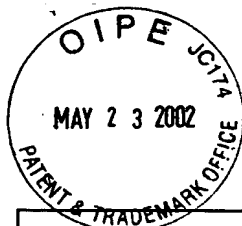
Examiner Initial		Document No.	Date	Country	Translation YES NO	
	AY	WO 92/07065	04/30/92	PCT		

EXAMINER	DATE CONSIDERED
-----------------	------------------------



RECEIVED
MAY 24 2002
TECH CENTER 1600/2900

Form PTO-1449 Modified		Docket No. ISIS-5030	Serial No. 10/079,185
List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Applicant Stanley T. Crooke	
		Filing Date February 20, 2002	Group 1635
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AL	Hobbs, J. et al., "Polynucleotides Containing 2'-Amino 2'-deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochem.</i> , 1973 , <i>12</i> , 5138-5145	
	AM	Hobbs, J. et al., "Poly 2'-Deoxy-2'-Aminouridylic Acid," <i>Biochem Biophys Res Commun</i> 1972 , <i>46</i> (4), 1509-1515	
	AN	Hobbs, J. et al., "Polynucleotides Containing 2'-Chloro-2'-deoxyribose," <i>Biochem.</i> , Eckstein et al., Ed., 1972 , <i>11</i> , 4336-4344	
	AO	Pieken, W. et al., "Kinetic Characterization of Ribonuclease-Resistant 2'-Modified Hammerhead Ribozymes," <i>Science</i> , 1991 , <i>253</i> , 314-317	
	AP	Pilet, J. et al., "Structural parameters of single and double helical polyribonucleotides," <i>Biochem Biophys Res Commun</i> , 1973 , <i>52</i> (2), 517-523	
	AQ	Rottman, F. et al., "Polynucleotides Containing 2'-O-Methyladenosine. I. Synthesis by Polynucleotide Phosphorylase," <i>Biochem</i> , 1968 , <i>7</i> , 2634-2641	
	AR	Rottman, F. et al., "Polymers Containing 2'-O-Methylnucleotides. II. Synthesis of Heteropolymers," <i>Biochem</i> , 1969 , <i>8</i> (11), 4354-4361	
	AS	Wincott et al., "Synthesis, deprotection, analysis and purification of RNA and ribozymes," <i>Nucl. Acids Res.</i> , 1995 , <i>23</i> (14), 2677-2684	
	AT	Zmudzka, B. et al., "Poly 2'-O-methylcytidylic acid and the role of the 2'-hydroxyl in polynucleotide structure," <i>Biochem Biophys Res Commun</i> , 1969 , <i>37</i> (6), 895-901	
EXAMINER		DATE CONSIDERED	



#3/I.D.S

Sheet 1 of 3

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-5030	Serial No. 10/079,185
		Applicant Stanley T. Crooke	
		Filing Date February 20, 2002	Group 1635

RECEIVED
 MAY 24 2002
 TECH CENTER 1600 2500

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AA	Chanfreau et al., "Alternative 3' -end processing of U5 snRNA by Rnase III," <i>Genes and Devel.</i> , 1997 , <i>11</i> , 2741-2751	
AB	Court, D., "RNA Processing and Degradation by Rnase III," <i>Control of Messenger RNA Stability</i> , 1993 , Academic Press, Inc., Belasco and Brawerman, eds., 71-116	
AC	Elbashir et al., "RNA interference is mediated by 21-and 22-nucleotide RNAs," <i>Genes and Devel.</i> , 2001 , <i>15</i> , 188-200	
AD	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> , 2001 , <i>411</i> , 494-498	
AE	Elela et al., "Rnase III Cleaves Eukaryotic Preribosomal RNA at a U3 snoRNP-Dependent Site," <i>Cell</i> , 1996 , <i>85</i> , 115-124	
AF	Mian, I. S., "Comparative sequence analysis of ribonucleases HII, III, II, PH and D," <i>Nucleic Acids Res</i> , 1997 , <i>25</i> , 3187-3195	
AG	Qu et al., "Seven Novel Methylation Guide Small Nucleolar RNAs are Processed from a Common Polycistronic Transcript by Rat1p and Rnase III in Yeast," <i>Mol Cell Biol</i> , 1999 , <i>19</i> (2), 1144-1158	
AH	Wu et al., "Identification and Partial Purification of Human Double Strand Rnase Activity," <i>J Biol Chem</i> , 1998 , <i>273</i> (5), 2532-2542	
AI	Arya, S. K. et al., "Inhibition of RNA Directed DNA Polymerase of Murine Leukemia Virus by 2'-O-Alkylated Polyadenylic Acids," <i>Biochem Biophys Res Commun</i> , 1974 , <i>59</i> (2), 608-615	
AJ	Arya, S. K. et al., "Inhibition of Synthesis of Murine Leukemia Virus in Cultured Cells by Polyribonucleotides and Their 2'-O-Alkyl Derivatives," <i>Molecular Pharmacology</i> , 1976 , <i>12</i> , 234-241	
AK	DeClercq, E. et al., "Influence of various 2- and 2'-substituted polyadenyl acids on murine leukemia virus reverse transcriptase," <i>Cancer Letters</i> , 1979 , <i>7</i> , 27-37	
EXAMINER		DATE CONSIDERED